

# Owner's Manual & Safety Instructions

**Save This Manual** Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

**CHICAGO**  **ELECTRIC**  
POWER TOOLS

**ITEM 69276**

## 1" VARIABLE SPEED SDS ROTARY HAMMER



Visit our website at: <http://www.harborfreight.com>  
Email our technical support at: [tech@harborfreight.com](mailto:tech@harborfreight.com)

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-800-444-3353 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

### **WARNING**

**Read this material before using this product.  
Failure to do so can result in serious injury.  
SAVE THIS MANUAL.**

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SAFETY

# CHICAGO ELECTRIC<sup>®</sup> POWER TOOLS

SETUP

### WARNING SYMBOLS AND DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	Addresses practices not related to personal injury.

OPERATION

## IMPORTANT SAFETY INFORMATION

### General Power Tool Safety Warnings

#### WARNING

**Read all safety warnings and instructions.**

*Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.*

**Save all warnings and instructions for future reference.**

*The term "power tool" in the warnings refers to your mains-operated (corded) power tool.*

### Work area safety

- Keep work area clean and well lit.**  
*Cluttered or dark areas invite accidents.*
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
- Keep children and bystanders away while operating a power tool.**  
*Distractions can cause you to lose control.*

MAINTENANCE



## Electrical safety

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- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is grounded.*
- Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
- When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*
- If operating a power tool in a damp location is unavoidable, use a Ground Fault Circuit Interrupter (GFCI) protected supply.** *Use of a GFCI reduces the risk of electric shock.*

## Personal safety

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- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*
- Use personal protective equipment. Always wear eye protection.** *Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.*
- Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
- Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewelry or long hair can be caught in moving parts.*
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of these devices can reduce dust-related hazards.*
- Only use safety equipment that has been approved by an appropriate standards agency.** *Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.*

## Power tool use and care

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### SAFETY

- 1. Do not force the power tool. Use the correct power tool for your application.**  
*The correct power tool will do the job better and safer at the rate for which it was designed.*
- 2. Do not use the power tool if the switch does not turn it on and off.**  
*Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
- 3. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.**  
*Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- 4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.**
- 5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.**
- 6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.**
- 7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.**

### SETUP

## Service

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Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

## Rotary Hammer Safety Warnings

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### OPERATION

- 1. Wear ear protectors with rotary hammers.**  
*Exposure to noise can cause hearing loss.*
- 2. Use auxiliary handles supplied with the tool.**  
*Loss of control can cause personal injury.*
- 3. Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.**
- 4. Let bit cool before touching, changing or adjusting it.** Bits heat up dramatically while in use, and can burn you.
- 5. If the drill bit jams, release the trigger immediately; drill torque can cause injury or break bit.**
- 6. Maintain labels and nameplates on the tool. These carry important safety information.** If unreadable or missing, contact Harbor Freight Tools for a replacement.
- 7. Avoid unintentional starting.** Prepare to begin work before turning on the tool.
- 8. Do not lay the tool down until it has come to a complete stop.** Moving parts can grab the surface and pull the tool out of your control.
- 9. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.**
- 10. Do not leave the tool unattended when it is plugged into an electrical outlet.** Turn off the tool, and unplug it from its electrical outlet before leaving.
- 11. This product is not a toy.** Keep it out of reach of children.
- 12. People with pacemakers should consult their physician(s) before use.** Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
  - Avoid operating alone.
  - Do not use with power switch locked on.
  - Properly maintain and inspect to avoid electrical shock.
  - Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.

### MAINTENANCE

## Rotary Hammer Safety Warnings (cont.)

13. **WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm.** Some examples of these chemicals are:
  - Lead from lead-based paints
  - Crystalline silica from bricks and cement or other masonry products
  - Arsenic and chromium from chemically treated lumberYour risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.  
(California Health & Safety Code § 25249.5, *et seq.*)
14. **WARNING: Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.**  
(California Health & Safety Code § 25249.5, *et seq.*)
15. **The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur.** It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## Vibration Safety

### **This tool vibrates during use.**

Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. **Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use.** Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. **Do not smoke during use.** Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. **Wear suitable gloves to reduce the vibration effects on the user.**
4. **Use tools with the lowest vibration when there is a choice.**
5. **Include vibration-free periods each day of work.**
6. **Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.**
7. **To reduce vibration, maintain the tool as explained in this manual.** If any abnormal vibration occurs, stop use immediately.



**SAVE THESE INSTRUCTIONS.**

## Grounding

### ⚠️ WARNING

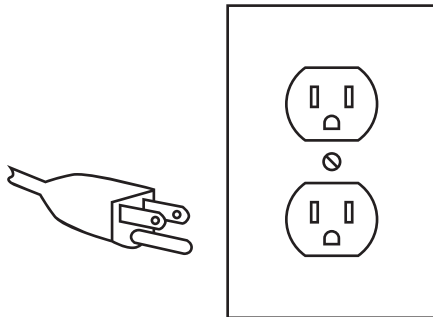


**TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:**

Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

SAFETY

## Grounded Tools: Tools with Three Prong Plugs



3-Prong Plug and Outlet

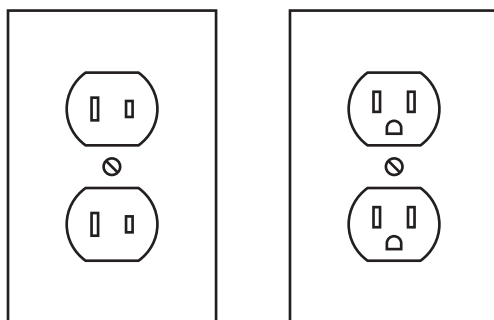
2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool's grounding system and must never be attached to an electrically "live" terminal. **(See 3-Prong Plug and Outlet.)**
3. The tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the preceding illustration. **(See 3-Prong Plug and Outlet.)**

1. Tools marked with "Grounding Required" have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. **(See 3-Prong Plug and Outlet.)**

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## Double Insulated Tools: Tools with Two Prong Plugs



Outlets for 2-Prong Plug

1. Tools marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code.
2. Double insulated tools may be used in either of the 120 volt outlets shown in the preceding illustration. **(See Outlets for 2-Prong Plug.)**

MAINTENANCE

## Extension Cords







- Grounded** tools require a three wire extension cord. **Double Insulated** tools can use either a two or three wire extension cord.
- As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. **(See Table A on page 7.)**
- The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. **(See Table A.)**
- When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. **(See Table A.)**
- If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. **(See Table A.)**
- If you are using an extension cord outdoors, make sure it is marked with the suffix "W-A" ("W" in Canada) to indicate it is acceptable for outdoor use.






- Make sure the extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
- Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.

NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH				
	25'	50'	75'	100'	150'
0 – 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 – 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-

\* Based on limiting the line voltage drop to five volts at 150% of the rated amperes.

## Symbology

	Double Insulated
	Canadian Standards Association
	Underwriters Laboratories, Inc.
	Volts Alternating Current
	Amperes
	No Load Revolutions per Minute (RPM)

	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.
	Read the manual before set-up and/or use.
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.
	WARNING marking concerning Risk of Fire. Do not cover ventilation ducts. Keep flammable objects away.
	WARNING marking concerning Risk of Electric Shock. Properly connect power cord to appropriate outlet.

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## Specifications

Electrical Rating	120V~ / 60Hz / 7.3A
Rotational Speed	0-1150 RPM
Impact Rate	0-5100 BPM
Wood Capacity	1.6" (40 mm)
Concrete Capacity	1" (25 mm)
Steel Capacity	.5" (13 mm)
Shank Style	SDS



## Setup - Before Use:



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

### **WARNING**

**TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**  
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool.

**Note:** For additional information regarding the parts listed in the following pages, refer to *Parts List and Diagram* on page 14.

## Functions

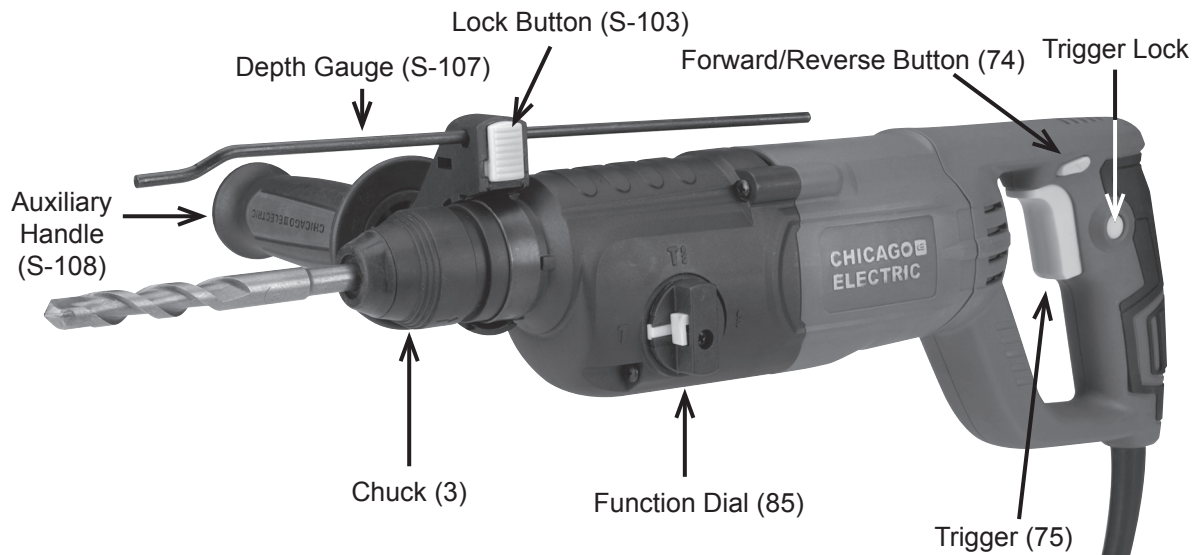


Figure A



## Operating Instructions



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

## Tool Set Up

### **WARNING**

**TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:** Press and release the Trigger and unplug the tool from its electrical outlet before adjusting tool or installing accessories.

#### Adjusting the Auxiliary Handle

1. The Auxiliary Handle can be placed in a variety of positions.
2. To adjust the Auxiliary Handle, turn the Handle counterclockwise to loosen the band. Slide the Handle on or off the Rotary Hammer or to the desired position then turn the Handle clockwise to secure it in place.

#### Using the Depth Gauge

1. The Depth Gauge can only be used if the Auxiliary Handle is in place and positioned on either side or the top of the Rotary Hammer. The body of the Hammer will interfere with the Depth Gauge if the Handle is in the bottom position.
2. Press and hold the Lock Button and slide the Depth Gauge through the Depth Gauge Slot on the Auxiliary Handle.
3. Position the Depth Gauge as needed, then release the Lock Button to secure the Depth Gauge in place.

#### Adjusting the Functions

1. Adjust the Function Dial before using the Rotary Hammer. To adjust the Function Dial, press the Dial Release Button on the Function Dial handle and rotate the dial until it clicks in place at one of the three positions.

**CAUTION:** Move the Function Dial only when the Motor is stopped. Attempting to move the Function Dial while the Motor is engaged will result in abrupt Bit rotation and can cause property damage.

**CAUTION:** When moving the Function Dial, make sure the Dial clicks into the desired position. If not actively engaged, the Dial could slip out of position resulting in tool damage.

2. To Drill: Rotate the Function dial to the Drill setting. The Rotary Hammer will revolve when powered.
3. To Hammer/Drill: Rotate the Function Dial to the Hammer/Drill setting. The Rotary Hammer will revolve and hammer when powered.
4. To Chisel: Rotate the Function Dial to the Hammer setting. The Rotary Hammer will hammer when powered.

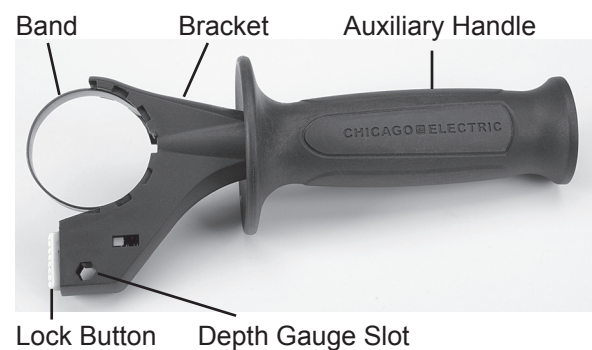


Figure B

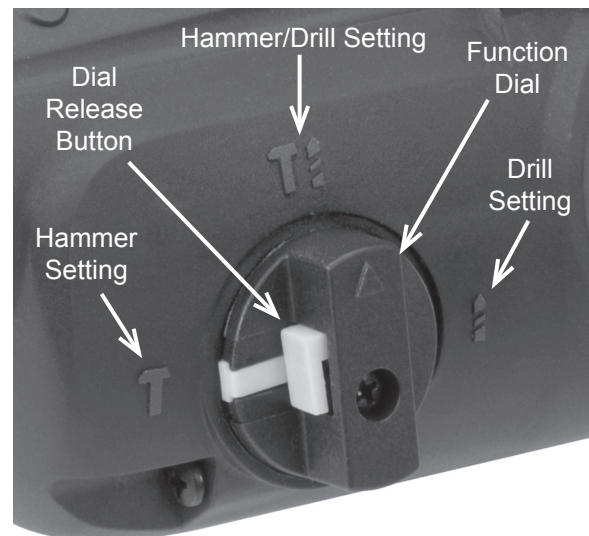


Figure C

**Changing Drill Bits**

**CAUTION!** Wear heavy-duty work gloves to provide protection when inserting and removing drill bits. Drill bits become very hot during use. Do not remove drill bits until the bit has cooled. Do not strike stuck bits with a hammer.

1. Pull back on the Chuck and insert or remove the Drill Bit. If inserting the Drill Bit, make sure it slides all the way into the opening.

2. Release the Chuck.
3. Check that the Drill Bit is secured in place. It should not be able to be pulled out of the Chuck.

**Note:** When drilling a hole larger than 1-1/4" diameter, use a Drill Bit with four cutting edges.

**Work Piece and Work Area Set Up**

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
3. Secure loose work pieces using a vise or clamps (not included) to prevent movement while working.
4. There must not be objects, such as utility lines, nearby that will present a hazard while working.

**General Operating Instructions**

1. Install the Drill Bit.
2. Adjust the Auxiliary Handle and the Depth Gauge as needed.
3. Set the Function Dial to the desired setting.
4. Set the direction by pressing the Forward/Reverse Button on either side of the Rotary Hammer. The direction is indicated by the arrow on the button.
5. Plug in the Power Cord.
6. Turn on the Rotary Hammer:
  - a. Squeeze and hold the Trigger. Release the Trigger to stop.
  - b. Or, to run the Rotary Hammer continuously, squeeze and hold the Trigger, press the Trigger Lock, then release the Trigger. The Rotary Hammer will stay on until you squeeze and release the Trigger again.
7. Allow the Rotary Hammer to reach full speed before contacting the work surface.
8. When finished, to prevent accidents, turn off the tool and disconnect its power supply after use. Allow the bit to cool then remove it from the Chuck. Clean, then store the tool indoors out of children's reach.

## Maintenance and Servicing



Procedures not specifically explained in this manual must be performed only by a qualified technician.

### **⚠️ WARNING**

#### **TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**

Press and release the Trigger and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

#### **TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:**

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

## Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE**, inspect the general condition of the tool. Check for loose hardware, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
2. **AFTER USE**, wipe external surfaces of the tool with clean cloth.
3. **⚠️ WARNING! If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.**

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**POWER TOOLS**


# Troubleshooting

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Problem	Possible Causes	Likely Solutions
Tool will not start.	<ol style="list-style-type: none"> <li>1. Cord not connected.</li> <li>2. No power at outlet.</li> <li>3. Tool's thermal reset breaker tripped (if equipped).</li> <li>4. Internal damage or wear. (Carbon brushes or switch, for example.)</li> </ol>	<ol style="list-style-type: none"> <li>1. Check that cord is plugged in.</li> <li>2. Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads.</li> <li>3. Turn off tool and allow to cool. Press reset button on tool.</li> <li>4. Have technician service tool.</li> </ol>
Tool operates slowly.	Extension cord too long or cord diameter too small.	Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See <i>Extension Cords</i> in <i>Grounding</i> section on page 6.
Performance decreases over time.	<ol style="list-style-type: none"> <li>1. Accessory dull or damaged.</li> <li>2. Carbon brushes worn or damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Keep cutting accessories sharp. Replace as needed.</li> <li>2. Have qualified technician replace brushes.</li> </ol>
Excessive noise or rattling.	Internal damage or wear. (Carbon brushes or bearings, for example.)	Have technician service tool.
Overheating.	<ol style="list-style-type: none"> <li>1. Forcing tool to work too fast.</li> <li>2. Accessory misaligned.</li> <li>3. Accessory dull or damaged.</li> <li>4. Blocked motor housing vents.</li> <li>5. Motor being strained by long or small diameter extension cord.</li> </ol>	<ol style="list-style-type: none"> <li>1. Allow tool to work at its own rate.</li> <li>2. Check and correct accessory alignment.</li> <li>3. Keep cutting accessories sharp. Replace as needed.</li> <li>4. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air.</li> <li>5. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See <i>Extension Cords</i> in <i>Grounding</i> section on page 6.</li> </ol>
 <b>Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.</b>		

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## PLEASE READ THE FOLLOWING CAREFULLY

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THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

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## Parts List and Diagram

### Parts List

Part	Description
1	Front Cover
2	Clip Ring 19X2
3	Chuck
4	Steel Ball Plate
5	Steel Ball 7.14
6	Steel Ball Board
7	Spring
8	Gear Box
9	Screw St4x90
10	Screw St4x35f
11	Positioning Pin
12	Seal
13	Needle Bearing
14	Bearing 606-2Z
15	Circlip 28x2.5
16	Washer
17	Spring
18	Big Gear
19	Rotating Sleeve
20	Needle Bearing 2.5x11.8
21	Clutch
22	Clip Ring 29X1.5
23	Rubber Plate
24	Guide Sleeve
25	Impact Hammer
26	Impact Hammer Cover
27	O-Ring 18X3.5
28	O-Ring 10.6X3.7
29	Guide Sleeve Holder
30	Clip Ring 27.5X1.8
31	Flat Washer
32	Pneumatic Hammer
33	O-Ring 15X3
34	Cylinder
35	Cylinder Pad
36	Middle Cover
37	Oil-Retaining Bearing
38	O-Ring 73X2
39	Middle Cover
40	Pin 7X10
41	O-Ring 24X2.2
42	Oil Retaining Cover
43	Bearing 609-2Rs
44	Armature
45	Bearing 607-2Z
46	Pad
47	Small Gear
48	Intermediate Shaft
49	Steel Ball 3
50	Drill Gear Clutch
51	Hammer Gear Clutch

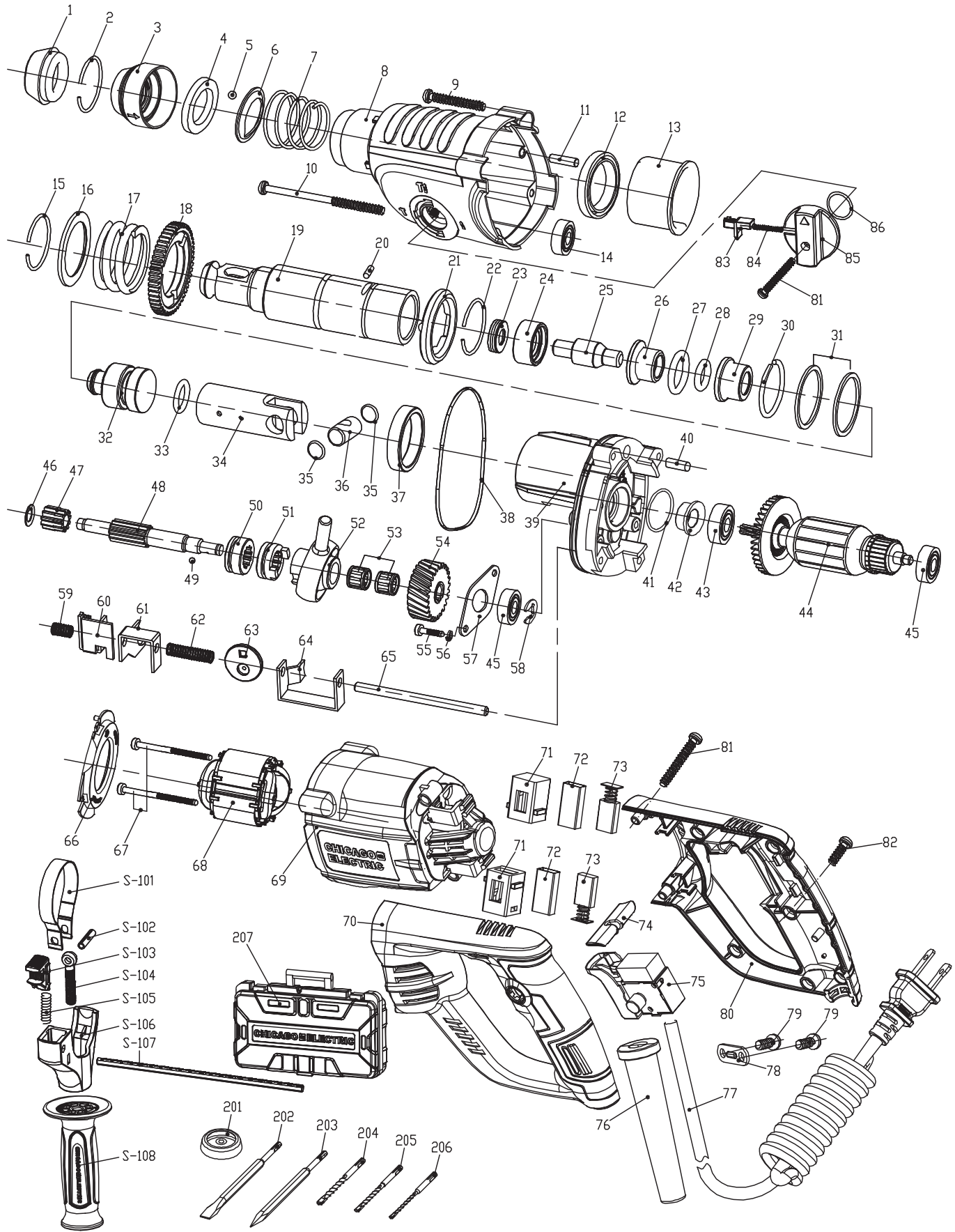
Part	Description
52	Swinging Rod Bearing
53	Needle Bearing K9x12x10
54	Primary Gear
55	Screw M5x12
56	Spring Plate 5
57	607 Bearing Board
58	Split Washer
59	Locking Spring
60	Locking Plate
61	Drilling Gear Block
62	Pick Spring
63	Inner Button
64	Hammer Gear Block
65	Guide Pillar
66	Guide Ring
67	Screw St4x55
68	Stator
69	Housing
70	Left Handle
71	Brush Holder
72	Copper Brush Holder
73	Carbon Brush
74	Forward/Reverse Button
75	Trigger
76	Cord Protector
77	Power Cord
78	Cable Clamp Steel
79	Screw St4x12-F
80	Right Handle
81	Screw St4x25-F
82	Screw St4x16-F
83	Dial Release Button
84	Button Spring
85	Function Dial
86	O-Ring 17X1.6
S-101	Band
S-102	Pin
S-103	Lock Button
S-104	Eye Bolt
S-105	Spring
S-106	Bracket
S-107	Depth Gauge
S-108	Auxiliary Handle
201	Sleeve
202	Flat Chisel 14X250
203	Point Chisel 14X250
204	Drill Bit 12X150
205	Drill Bit 10X150
206	Drill Bit 8X150
207	Case

Record Product's Serial Number Here: \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

# Assembly Diagram



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MAINTENANCE

## Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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**POWER TOOLS**